

MOVING COIL MICROACTUATOR WITH REDUCED ROTOR MASS
ABSTRACT OF THE DISCLOSURE

A disc drive has a disc rotatable about an axis, a slider carrying a transducing head for transducing data with a disc, and a dual stage actuation assembly supporting the slider to position the transducing head adjacent a selected radial track of the disc. The dual stage actuation assembly includes a movable actuator arm and a suspension assembly supported by the actuator arm. The suspension assembly includes a gimbal. The dual stage actuation assembly further includes a microactuator. The microactuator includes a stator having a top surface and a bottom surface wherein the gimbal is connected to the top surface of the stator. A rotor is operatively connected to the stator and the rotor supports the slider. A magnetic keeper structure is supported by the stator such that the rotor moves with respect to the magnetic keeper structure.